

# C-CHARGER® CI SERIES™

## SINGLE-RATE FLOAT BATTERY CHARGERS

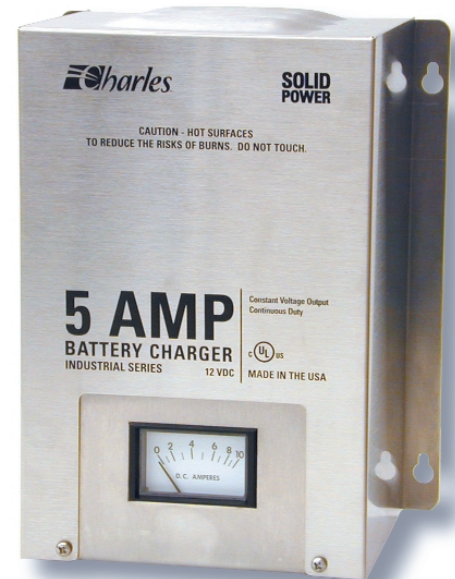
Safe to say, there's no other float charger built like a C-Charger from Charles Industries. Rugged #304 grade stainless steel forms the sturdy housing that withstands virtually all environmental challenges; including heat, humidity, vibration, and other stress factors. The steel cover is hinged to ease installation.

Electrically, the C-Charger is a paragon of efficiency and simplicity. It uses a ferroresonant transformer with integral self-regulation. It has been intelligently designed to be completely devoid of any complicated switching circuits that could possibly burn out. There are no tubes nor delicate electronics to fail or to cause radio frequency interference (RFI). By simplifying our design, Charles has

increased reliability without sacrificing performance or usability.

Voltage output to the batteries remains at a safe and constant DC level from full load to no load, even if AC power runs as high as 132 VAC or as low as 108 VAC. This automatic voltage regulation relieves strain on internal electrical components and lengthens the lifespan of the unit. All components are designed to operate safely and continuously in an ambient temperature as high as 122° F.

CI Series Battery Chargers are available in 12, 24 and 32 Volt models and may be used with both lead acid and nickel cadmium battery banks.



### Features

- UL Listed
- DC ammeter
- Terminal board
- Sealed silicon diodes
- Cannot discharge battery during AC failure
- Stainless steel for corrosion resistance
- Ferroresonant transformer for reliability
- Isolated output: no direct AC to DC connection
- Isolated positive and negative: can be used as a negative voltage charger
- Two year limited warranty

# Specifications

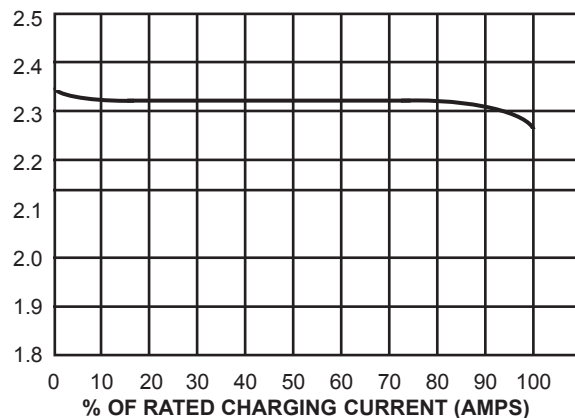
AC Input	108-132 volts/60 Hz (220 volts/50 Hz optional)
Operating Temperature	0° to 50° C (32° to 122° F)
Storage Temperature	-20° to 60° C (-4° to 140° F)
Cooling	Convection
DC Output	
- Float	2.16 VPC for lead acid, 1.45 VPC for nickel cadmium
- Equalize	2.33 VPC for lead acid, 1.55 VPC for nickel cadmium
Current Limit	Approximately 135%
Enclosure	304 stainless steel hinged cover to facilitate installation

Model Number	D.C. Output		Height Inches	Width Inches	Depth Inches	Approx. Weight
	Amps	System Voltage				
<b>12 Volt</b>						
CI1205C*	5	12	9.5	7.5	5	9
CI1210C	10	12	9.5	7.5	6.25	13
CI1215A	15	12	9.5	7.5	6.25	15
CI1220C	20	12	9.5	7.5	6.25	17
CI1230C	30	12	11.5	9	8.75	20
CI1240C	40	12	11.5	9	8.75	30
CI1260C**	60	12	13	11.5	10.25	38
<b>24 Volt</b>						
CI2405C*	5	24	9.5	7.5	5	12
CI2410C	10	24	9.5	7.5	6.25	17
CI2420C	20	24	11.5	9	8.75	30
CI2430C**	30	24	13	11.5	10.25	38
CI2440C**	40	24	13	11.5	10.25	46
<b>32 Volt</b>						
CI3205C*	5	32	9.5	7.5	5	15
CI3220C**	20	32	13	11.5	10.25	38
CI3230C**	30	32	13	11.5	10.25	46
CI3240C**	40	32	13	11.5	10.25	60
<i>Consult Charles Industries for additional models</i>						

\*DC Ammeter Only

\*\*Switch Optional

VPC **Typical Output Curve**



## Ordering Information

When ordering, please specify:

1. Model number
2. AC input: voltage & frequency
3. Battery type and number of cells
4. Ampere-hour capacity of battery
5. Recharge time desired
6. Description of load

Contact your Charles sales representative for specific product information.



D-IND001-B01 Rev. 3



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